

Guidelines for Calculating Emissions from Greenwaste Composting and Co-Composting Operations

December 2020

DESCRIPTION:

Composting refers to the active phase biodegradation and subsequent curing phase of organic waste materials. Greenwaste composting is microbiological decomposition of greenwaste by itself, or in combination with foodwaste, or up to 20 percent manure, per pile volume basis. Co-Composting is composting of biosolids and/or manure with a bulking agent. Composting of greenwaste combined with manure greater than 20 percent, per pile volume basis, is considered as co-composting. Specific to greenwaste composting and co-composting, Rule 301 requires that the total weight of emissions of organic gases (VOC) and ammonia (NH₃) be annually reported, even those which continue to passively emit air contaminants after they are processed by permitted or unpermitted equipment or operations.

1. EMISSION CALCULATION PROCEDURES

- a) Facilities can estimate their VOC and NH₃ emissions using equation (1) when the emissions are not being controlled or equation (2) when the emissions are being controlled prior to be released to the atmosphere.

$$\text{EMISSION} = \text{Throughput} * \text{Uncontrolled Emission Factor} \quad (1)$$

$$\text{EMISSION} = \text{Throughput} * \text{Controlled Emission Factor} \quad (2)$$

Where,

EMISSION: VOC or NH₃ emissions expressed in pounds per year (lb/yr)

Throughput: Mass of foodwaste, manure, biosolids, and greenwaste in tons per year as received by a facility and processed through composting excluding recycled materials.

Uncontrolled Emission Factor (EF_u): SCAQMD default factors that are taken from the Rule 1133.2 and Rule 1133.3 staff reports and are available to estimate the emissions from co-composting and greenwaste composting operations.

Controlled Emission Factors (EF_c): These are the factors determined based on the types of emissions control exist at the facility such as best management practices or additional SCAQMD approved control system as described below.

If controlled emission factors are used to estimate emissions, you must provide the District with documentation that demonstrates compliance.

- i. **Best Management Practices:** The best management practices are defined as when greenwaste composting piles are covered with at least six inches of finished compost within 24 hours of initial pile formation, and not turned for the first seven days of active phase composting, and

For the first fifteen days of initial pile formation, and within six hours before turning, the top half of the pile is kept wet to a depth of at least three inches.

- ii. **Add-on Control:** SCAQMD approved emission control system is used for greenwaste composting and co-composting piles (i.e., Thermal Oxidizer (T/O), Bio-filtration, etc.)

b) Uncontrolled and Controlled Emission Factors for Greenwaste Composting & Co-Composting Operations

The uncontrolled emission factors for VOC & NH₃ are provided in Table 1 and the controlled emission factors are listed under Table 2a for housekeeping practices and Table 2b for add-on control.

Table 1: Uncontrolled Emission Factors

Operation	VOC (lbs/ton of throughput)	NH ₃ (lbs/ton of throughput)
Greenwaste Composting	4.67	0.66
Co-Composting	1.78	2.93

Table 2a: Controlled Emission Factors (Best Management Practices)

Operation	VOC (lbs/ton of throughput)	NH ₃ (lbs/ton of throughput)
Greenwaste Composting	2.97*	0.57**

*This value assumes 40% control applied to the active phase only

**This value assumes 20% control applied to the active phase only

Table 2b: Controlled Emission Factors (Add-On Control)

Operation	VOC (lbs/ton of throughput)	NH ₃ (lbs/ton of throughput)
Greenwaste Composting*	$4.25 \times (1 - CE_{A,VOC}) + 0.42 \times (1 - CE_{C,VOC})$	$0.46 \times (1 - CE_{A,NH3}) + 0.20 \times (1 - CE_{C,NH3})$
Co-Composting	$1.78 \times (1 - CE_{VOC})$	$2.93 \times (1 - CE_{NH3})$

Where, CE_{VOC} or CE_{NH3} is a control efficiency of the Add-on control and expressed as a decimal fraction. *The subscript A for greenwaste composting refers to the control efficiency during the active phase, and the subscript C refers to the control efficiency (if any) during the curing phase.

c) VOC and NH₃ Emissions Calculations

To estimate the total VOC and NH₃ emissions from greenwaste composting or co-composting operations,

1. Take the total weight of foodwaste, manure, biosolids, and greenwaste in tons per year as received by a facility and processed through composting excluding recycled materials.
2. Take the uncontrolled emission factor from Table 1 when there is no control at the facility or controlled emission factors from Tables 2a or 2b when best management

practices or SCAQMD approved control system are used, based on the type of emissions (i.e., VOC, NH₃).

3. Enter the values obtained in steps 1 and 2 in equations (1) or (2), whichever applicable, to estimate the VOC & NH₃ emissions for greenwaste composting and/or co-composting operations.

- d) If a source test was conducted, then emission factors derived from District-approved source test can be used to estimate VOC & NH₃ emissions.

2. EXAMPLES:

The following examples show how data are entered into the AER Web Tool and emissions are reported. A facility reports emissions from three distinct greenwaste composting and co-composting operations as follows:

Operation 1: Co-composted 8,000 tons of materials with no add-on control. The VOC and NH₃ emissions are estimated as shown in screenshots 1 - 7 below with emission factors from row 2 of Table 1.

Operation 2: Composted 10,000 tons of combined greenwaste composting materials with good housekeeping practices. The VOC and NH₃ emissions are estimated as shown in screenshots 8 - 13 below with emission factors from Table 2a.

Operation 3: Co-composted 18,000 tons of materials with add-on control system: thermal oxidizer (T/O) controlling VOC at 99.2% efficient and bio-filter controlling NH₃ at 75% efficient. The VOC and NH₃ emissions are estimated as shown in screenshots 14 - 20 below with emission factors from row 2 of Table 2b.

Screenshot #21 shows emissions from composting and co-composting processes are added.

Operation 1: Screenshot #1: Add Emission Source for Uncontrolled Co-Composting Operation

The screenshot shows the 'Edit Emission Source' form in the AER Web Tool. The form is titled 'Edit Emission Source' and includes a 'Facility ID: 999111' and 'Reporting period: 2013'. The form is divided into two main sections: 'Facility Information' and 'Edit Emission Source'. The 'Facility Information' section includes links for 'Facility Information', 'Build Reporting Structure', 'Combustion Fuels', 'Emission Sources (ES)', 'Report Process/Emissions', 'Summaries', 'Data Validation', and 'Report Submission'. The 'Edit Emission Source' section includes a text box for 'Providing correct information and proper selection categories would help to classify emission source.' and a table of fields: 'Permitted' (checkbox), 'A/N' (text), 'Permit No' (text), 'Permit Device ID' (text), 'AER Device ID' (text, with a note 'will be assigned upon saving'), 'ES Name' (text), 'Operating ES Status' (dropdown menu, currently 'Normal Operation'), 'Comment' (text area, currently 'Co-Composting Operations'), 'Emission Source Group' (dropdown menu, currently 'Other Processes'), and 'Design Capacity' (text). A 'Determine Emission Source Group Type' button is located below the 'Emission Source Group' dropdown. At the bottom of the form, there are three buttons: 'Save and return to List of Emission Sources', 'Save and proceed to Process Reporting', and 'Cancel'. An 'Optional: Save and Mark as Completed' button is also present.

Operation 1: Screenshot #2: Select Process ID P1

South Coast AQMD Air Quality Management District

AER Home Access Facility Facility Home

test 2014
Logout | Edit Profile

Process References

A/N	Permit NO	Permit Device ID	Permit Device Description	AER Device ID	ES Name	Source Group	Emissions?	Equipment	ES Status
Open	P1	Other Process Emissions		ES37	Other Processes	Other Processes	Y	Other process equipment	Work in progress

Process ID: P1 Source Group: Other Process Emissions Process Name: Other Processes Process Status: Work in progress Operation Type: routine

Add Process

OK

Displaying 37 emission sources. You can use filter to narrow down selection.

A/N: Permit NO: AER Device ID: Permit Device ID: Search Emission Sources

Add New Emission Source

Operation 1: Screenshot #3: Assign Activity Code and Rule Number

South Coast AQMD Air Quality Management District

AER Home Access Facility Facility Home

Bill Milner
Logout | Edit Profile

Edit Emission Process - Other Processes

AER Device ID	Permit Device ID	A/N	Process ID	Rule #	Activity
ES37	P1	NON-PERMITTED	P1	1133.2	Miscellaneous Operations and Services

AER Device ID: ES37 AER Device Name: Permit Device ID: P1 Process ID: P1 Process Name: Process Comment: Activity Code: Sector: Miscellaneous Operations and Services Industry: Others - Not Classified Operation: Operations & Maintenance Process: Rule #: 1133.2 Add Rule

Save Cancel

Facility ID: 999

Facility Information Build Reporting Structure Combustion Fuels Emission Sources (ES) Report Process/Emissions Combustion External Combustion Internal Combustion Use of organics Spray Coating/Spraying Other Use of Organics Storage Tanks Fugitive Components Other Processes Process Upset Summaries

Annual Throughput

Criteria Emissions (lbs)

Pollutant EF Unit Controlled EF EF Data Source Overall CE Emissions

Operation 1: Screenshot #4: Input Throughput

South Coast Air Quality Management District

Facility ID: 999111 · ABC · Reporting period: 2013

Back to Emission Source Process Reference

Facility Information

Build Report

Combustion

Emission Source

Report Process

Combustion

External Combustion

Internal Combustion

Use of organics

Spray Coating/Spray Booth

Other Use of Organics

Storage Tanks

Fugitive Components

Other Processes

Process Upset

Summaries

Edit Throughput Information - Other Processes

AER Device ID	Permit Device ID	A/N	Process ID	Rule #	Activity
ES37			P1	1133.2	Miscellaneous Operations and Services : Others - Not Classified : Operations & Maintenance

Annual Throughput

Annual Throughput: 8000 tons

Throughput Type: Input

Throughput Comment: Contains >20% Manure

Save Cancel

Criteria Emissions (lbs)

Annual Throughput

Criteria Emissions (lbs)

Operation 1: Screenshot #5: Enter VOC Information

South Coast Air Quality Management District

Facility ID: 999111 · ABC · Reporting period: 2013

Back to Emission Source Process Reference

Facility Information

Build Report

Combustion

Emission Source

Report Process

Combustion

External Combustion

Internal Combustion

Use of organics

Spray Coating/Spray Booth

Other Use of Organics

Storage Tanks

Fugitive Components

Other Processes

Process Upset

Summaries

Data Validation

Report Submission

Open Criteria Emission Information - Other Processes

AER Device ID	Permit Device ID	A/N	Process ID	Rule #	Activity
ES37			P1	1133.2	Miscellaneous Operations and Services : Others - Not Classified : Operations & Maintenance

Annual Throughput

Annual Throughput: 8,000.0 tons

Pollutant: VOC

Emission Factor (EF): 1.7800 lbs/tons

Controlled EF value (mark checkbox if EF listed represents EF determined after control)

Overall Control Efficiency: 0.00000

Emission Factor Comment: Uncontrolled Co-Composting VOC Emissions

Emission Factor Data Source: AQMD default

Emissions: 14,240.00 lbs

Save Cancel

Criteria Emissions (lbs)

Pollutant	EF	Unit	Controlled EF	EF Data Source	Overall CE	Emissions
-----------	----	------	---------------	----------------	------------	-----------

Toxic (TAC/ODC) Emissions (lbs)

Operation1: Screenshot #6: Enter Ammonia Information

Facility ID: 999111

Facility Information

Build Reporting Structure

Combustion Fuels

Emission Sources (ES)

Report Process/Emissions

Combustion

External Combustion

Internal Combustion

Use of organics

Spray Coating/Spray Booth

Other Use of Organics

Storage Tanks

Fugitive Components

Other Processes

Process Upset

Summaries

Data Validation

Report Submission

Open Toxic (TAC/ODC) Emission Information - Other Processes

AER Device ID	Permit Device ID	A/N	Process ID	Rule #	Activity
ES37			P1	1133.2	Miscellaneous Operations and Services : Others - Not Classified : Operations & Maintenance

Annual Throughput

8,000.0 tons

TAC/ODC Toxic Pollutants / Ozone Depleting Compounds

Pollutant: 32 - Ammonia

TAC Group: 32 - Ammonia

CAS # (Pollutant): 7664417 - Ammonia

Emission Factor (EF): 2.93000e+0 lbs/tons

Controlled EF value (mark checkbox if EF listed represents EF determined after control)

Overall Control Efficiency: 0.00000

Emission Factor Comment: Co-Composting Uncontrolled Ammonia Emissions

Emission Factor Data Source: AQMD default

Emissions: 2.344e+4 lbs

Save Cancel

Back to Emission Source Process Reference

AQMD web site Home | AER Web Site | Submit question/comment | Ecotek Web Site | Report a Bug

Operation1: Screenshot #7: Data Entry Complete

Facility ID: 999111

Facility Information

Build Reporting Structure

Combustion Fuels

Emission Sources (ES)

Report Process/Emissions

Combustion

External Combustion

Internal Combustion

Use of organics

Spray Coating/Spray Booth

Other Use of Organics

Storage Tanks

Fugitive Components

Other Processes

Process Upset

Summaries

Data Validation

Report Submission

Return to Work in Progress

Process

AER Device ID	Permit Device ID	A/N	Process ID	Rule #	Activity
View	ES37		P1	1133.2	Miscellaneous Operations and Services : Others - Not Classified : Operations & Maintenance

Throughput

Annual Throughput

8,000.0 tons

Criteria Emissions (lbs)

Pollutant	EF	Unit	Controlled EF	EF Data Source	Overall CE	Emissions
View	VOC	1.7800 lbs / tons	No	AQMD default	0.00000	14,240.00

Toxic (TAC/ODC) Emissions (lbs)

TAC/ODC Group	CAS #	EF	Unit	Controlled EF	EF Data Source	Overall CE	Emissions
View	Ammonia	7664417	2.93000e+0 lbs / tons	No	AQMD default	0.00000	2.344e+4

Back to Emission Source Process Reference

AQMD web site Home | AER Web Site | Submit question/comment | Ecotek Web Site | Report a Bug

Operation 2: Screenshot #8: Add Emission Source for Composting with Best Management Practices

Edit Emission Source (1.0.0.211) - Windows Internet Explorer provided by South Coast A.Q.M.D.

Facility ID: 999111 · ABC · Reporting period: 2013

Edit Emission Source

Providing correct information and proper selection categories would help to classify emission source.

Permitted ☐

A/N

Permit No

Permit Device ID

AER Device ID will be assigned upon saving

ES Name

Operating ES Status Normal Operation *

Comment Greenwaste Composting

Emission Source Group Other Processes

Determine Emission Source Group Type *

Design Capacity

Save and return to List of Emission Sources or Save and proceed to Process Reporting or Cancel

Optional: Save and Mark as Completed

AQMD web site Home | AER Web Site | Submit question/comment | Ecotek Web Site | Report a Bug

Operation 2: Screenshot #9: Assign Activity Code and Rule Number

Edit (1.0.0.211) - Windows Internet Explorer provided by South Coast A.Q.M.D.

Facility ID: 999111 · ABC · Reporting period: 2013

Edit Emission Process - Other Processes

AER Device ID ES38 Permit Device ID A/N Process ID P1 Rule # Activity

AER Device ID ES38 AER Device Name

NON-PERMITTED Permit Device ID

Process ID P1 Process Name

Process Comment

Activity Code *

Sector: Miscellaneous Operations and Services

Industry: Others - Not Classified

Operation: Operations & Maintenance

Process: Process

Rule # 1133.3 * Add Rule

Save Cancel

Annual Throughput

Criteria Emissions (lbs)

Pollutant	EF	Unit	Controlled EF	EF Data Source	Overall CE	Emissions

Operation 2: Screenshot #10: Input Throughput

South Coast Air Quality Management District

Facility ID: 999111

Facility ID: 999111 · ABC · Reporting period: 2013

Back to Emission Source Process Reference

Edit Throughput Information - Other Processes

AER Device ID	Permit Device ID	A/N	Process ID	Rule #	Activity
ES38			P1	1133.3	Miscellaneous Operations and Services : Others - Not Classified : Operations & Maintenance

Annual Throughput: 10000 tons

Throughput Type: Input

Throughput Comment: <20% Manure

Save Cancel

Other Processes

AER Device ID	Permit Device ID	A/N	Process ID	Rule #	Activity
ES38			P1	1133.3	Miscellaneous Operations and Services : Others - Not Classified : Operations & Maintenance

Throughput

Annual Throughput

Criteria Emissions (lbs)

Operation 2: Screenshot #11: Input VOC Information

South Coast Air Quality Management District

Facility ID: 999111

Facility ID: 999111 · ABC · Reporting period: 2013

Back to Emission Source Process Reference

Open Criteria Emission Information - Other Processes

AER Device ID	Permit Device ID	A/N	Process ID	Rule #	Activity
ES37			P1	1133.3	Miscellaneous Operations and Services : Greenwaste Reclamation : Operations & Maintenance

Annual Throughput: 10,000.00 tons

Pollutant: VOC

Emission Factor (EF): 2.9700 lbs/tons

☒ Controlled EF value (mark checkbox if EF listed represents EF determined after control)

Overall Control Efficiency:

Emission Factor Comment: Greenwaste Composting VOC Emissions Using Best Management Practices

Emission Factor Data Source: AQMD default

Emissions: 29,700.00 lbs

Save Cancel

Other Processes

This reporting screen is for reporting activity data for other processes used in your facility which were not covered in previous reporting screens. Please provide specific information for every associated emission source. You must select Activity and throughput units before reporting emissions. If the operation of this process is not reported, you must select the activity and throughput units before reporting emissions.

Step 4: Toxic (TAC/ODC) Emissions (lbs)

TAC/ODC Group	CAS #	EF	Unit	Controlled EF	EF Data Source	Overall CE	Emissions
Add New							

Operation 2: Screenshot #12: Input Ammonia Information

Facility ID: 999111

double reporting. Detailed instructions are available by clicking on Help icon in the tool bar.

Step 1: Process

Optional: Mark as Completed

Open Toxic (TAC/ODC) Emission Information - Other Processes

AER Device ID	Permit Device ID	A/N	Process ID	Rule #	Activity
ES37			P1	1133.3	Miscellaneous Operations and Services : Greenwaste Reclamation : Operations & Maintenance : Composting

Annual Throughput
10,000.00 tons

TAC/ODC Toxic Pollutants / Ozone Depleting Compounds

Pollutant: 32 - Ammonia

TAC Group: 32 - Ammonia

CAS # (Pollutant): 7664417 - Ammonia

Emission Factor (EF): 5.70000e-1 lbs/tons

☒ Controlled EF value
(mark checkbox if EF listed represents EF determined after control)

Overall Control Efficiency:

Emission Factor Comment: Greenwaste Ammonia Emissions Using Best Management Practices

Emission Factor Data Source: AQMD default

Emissions: 5.700e+3 lbs

Save Cancel

AQMD web site Home | AER Web Site | Submit question/comment | Ecotek Web Site | Report a Bug

Operation 2: Screenshot #13: Data Entry Complete

Facility ID: 999111

Step 1: Process

Optional: Mark as Completed

AER Device ID	Permit Device ID	A/N	Process ID	Rule #	Activity
Open ES37			P1	1133.3	Miscellaneous Operations and Services : Greenwaste Reclamation : Operations & Maintenance : Composting

Click here to [delete](#) this process.

Step 2: Throughput

Annual Throughput
Open 10,000.00 tons

Step 3: Criteria Emissions (lbs)

Pollutant	EF	Unit	Controlled EF	EF Data Source	Overall CE	Emissions
Open VOC	2.9700	lbs / tons	Yes	AQMD default		29,700.00

Add New

Step 4: Toxic (TAC/ODC) Emissions (lbs)

TAC/ODC Group	CAS #	EF	Unit	Controlled EF	EF Data Source	Overall CE	Emissions
Open Ammonia	7664417	5.70000e-1	lbs / tons	Yes	AQMD default		5.700e+3

Add New

« Back to Emission Source Process Reference

AQMD web site Home | AER Web Site | Submit question/comment | Ecotek Web Site | Report a Bug

Operation 3: Screenshot#14: Add Emission Source for Co-Composting With Add-on Control

Edit Emission Source (1.0.0.211) - Windows Internet Explorer provided by South Coast A.Q.M.D.

Facility ID: 999111 · ABC · Reporting period: 2013

Edit Emission Source

Providing correct information and proper selection categories would help to classify emission source.

Permitted ☐

A/N

Permit No

Permit Device ID

AER Device ID will be assigned upon saving

ES Name

Operating ES Status

Comment

Emission Source Group

Design Capacity

[Save and return to List of Emission Sources](#) or [Save and proceed to Process Reporting](#) or [Cancel](#)

[Optional: Save and Mark as Completed](#)

Operation 3: Screenshot #15: Select Process ID P1

Emission Sources (ES) Classification (2.0.0.300) - Windows Internet Explorer provided by South Coast A.Q.M.D.

test 2014
Logout | Edit Profile

South Coast AQMD Air Quality Management District

Process References

A/N	Permit NO	Permit Device ID	Permit Device Description	AER Device ID	ES Name	Source Group	Emissions?	Equipment	ES Status
				ES37		Other Processes	Y	Other process equipment	Work in progress

Process ID **Source Group** **Process Name** **Process Status** **Operation Type**

[Add Process](#)

[OK](#)

Displaying 37 emission sources. You can use filter to narrow down selection.

A/N Permit NO

AER Device ID Permit Device ID

[Search Emission Sources](#)

Operation 3: Screenshot #16: Assign Activity Code and Rule Number

South Coast Air Quality Management District

Facility ID: 999111

AER Device ID: ES39

Process ID: P1

Activity: Miscellaneous Operations and Services : Others - Not Classified : Operations & Maintenance

Rule #: 1133.2

Annual Throughput: 180,000.0 tons

Pollutant	EF	Unit	Controlled EF	EF Data Source	Overall CE	Emissions
						2,563.20

Operation 3: Screenshot #17: Input Throughput

South Coast Air Quality Management District

Facility ID: 999111

AER Device ID: ES39

Process ID: P1

Activity: Miscellaneous Operations and Services : Others - Not Classified : Operations & Maintenance

Rule #: 1133.2

Annual Throughput: 18,000.0 tons

Throughput Type: Input

Throughput Comment: Controlled by TO with 99.2% Efficiency

TAC/ODC Group	CAS #	EF	Unit	Controlled EF	EF Data Source	Overall CE	Emissions
							2,563.20

Operation 3: Screenshot #18: Input VOC Information

Facility ID: 999111

such sources involves burning fuels, make sure emissions generated from burning fuels are reported separately. Combined emissions can also be reported here; however, it must be substantiated to avoid double reporting. Detailed instructions are available by clicking on Help icon in the tool bar.

Build Reporting Structure

Process

Optional: Mark as Completed

Open Criteria Emission Information - Other Processes

AER Device ID	Permit Device ID	A/N	Process ID	Rule #	Activity
ES39			P1	1133.2	Miscellaneous Operations and Services : Others - Not Classified : Operations & Maintenance

Annual Throughput
18,000.0 tons

Pollutant
VOC - Volatile Organic Compounds

Emission Factor (EF)
1.7800 * lbs/tons

☐ Controlled EF value
(mark checkbox if EF listed represents EF determined after control)

Overall Control Efficiency
0.99200

Emission Factor Comment
Co-Composting Controlled with Thermal Oxidizer

Emission Factor Data Source
Source Test

Emissions
256.32 lbs

Click here to [delete](#) this Emission.

Save Cancel

Back to Emission Source Process Reference

AQMD web site Home | AER Web Site | Submit question/comment | Ecotek Web Site | Report a Bug

Operation 3: Screenshot #19: Input Ammonia Information

Facility ID: 999111

such sources involves burning fuels, make sure emissions generated from burning fuels are reported separately. Combined emissions can also be reported here; however, it must be substantiated to avoid double reporting. Detailed instructions are available by clicking on Help icon in the tool bar.

Build Reporting Structure

Process

Optional: Mark as Completed

Open Toxic (TAC/ODC) Emission Information - Other Processes

AER Device ID	Permit Device ID	A/N	Process ID	Rule #	Activity
ES39			P1	1133.2	Miscellaneous Operations and Services : Others - Not Classified : Operations & Maintenance

Annual Throughput
18,000.0 tons

TAC/ODC Toxic Pollutants / Ozone Depleting Compounds

Pollutant
32 - Ammonia

TAC Group
32 - Ammonia

CAS # (Pollutant)
7664417 - Ammonia

Emission Factor (EF)
2.93000e+0 * lbs/tons

☐ Controlled EF value
(mark checkbox if EF listed represents EF determined after control)

Overall Control Efficiency
0.75000

Emission Factor Comment
Co-Composting Ammonia Emissions After Add-on Control

Emission Factor Data Source
Source Test

Emissions
1.319e+4 lbs

Save Cancel

Back to Emission Source Process Reference

AQMD web site Home | AER Web Site | Submit question/comment | Ecotek Web Site | Report a Bug

Operation 3: Screenshot #20: Data Entry Complete

Facility ID: 999111

double reporting. Detailed instructions are available by clicking on Help icon in the tool bar.

Process Optional: Mark as Completed

AER Device ID	Permit Device ID	A/N	Process ID	Rule #	Activity
Open	ES39		P1	1133.2	Miscellaneous Operations and Services : Others : Not Classified : Operations & Maintenance

[Click here to delete this process.](#)

Throughput

Annual Throughput

[Open](#) 18,000.0 tons

Criteria Emissions (lbs)

Pollutant	EF	Unit	Controlled EF	EF Data Source	Overall CE	Emissions
Open	VOC	1.7800 lbs / tons	No	Source Test	0.99200	256.32

[Add New](#)

Toxic (TAC/ODC) Emissions (lbs)

TAC/ODC Group	CAS #	Unit	Controlled EF	EF Data Source	Overall CE	Emissions		
Open	Ammonia	7664417	2.93000e+0	lbs / tons	No	Source Test	0.75000	1.319e+4

[Add New](#)

[Back to Emission Source Process Reference](#)

AQMD web site Home | AER Web Site | Submit question/comment | Ecotek Web Site | Report a Bug

Operations 1, 2 and 3: Screenshot #21: All Sources Are Added

Facility ID: 999111 · ABC · Reporting period: 2013

Build Reporting Structure

Emission Sources (ES) Classification

This section contains facility permit profile. Please make sure that every device has a specified Emission Source (ES). New emission sources can also be added.

EPA TANKS Software DATA IMPORT - [Click here](#) for more instructions.

Displaying 39 emission sources. You can use filter to narrow down selection.

A/N Permit NO

AER Device ID Permit Device ID

[Search Emission Sources](#)

[Add New Emission Source](#)

Search: [Print Preview](#)

Action	A/N	Permit NO	Permit Device ID	Permit Equipment Description	AER Device ID	ES Name	Source Group	Has Emissions	Equipment	ES Status	Process Reference
Open					ES39	Other Processes	Y	Other process equipment	Work in progress	Reference	
Open					ES38	Other Processes	Y	Other process equipment	Work in progress	Reference	
Open					ES37	Other Processes	Y	Other process equipment	Work in progress	Reference	